

Approved For Release 2008/01/18 : CIA-RDP83-00418R007500010001-6

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## INFORMATION REPORT INFORMATION REPORT

## CENTRAL INTELLIGENCE AGENCY

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COUNTRY Hungary

REPORT

SUBJECT Institute for Atomic Physics

DATE DISTR. 21 November 1956

NO. PAGES 1

REQUIREMENT NO. RD

DATE OF INFO.

PLACE &amp; DATE ACQ.

REFERENCES

This is UNEVALUATED Information

SOURCE EVALUATIONS ARE DEFINITIVE. APPRAISAL OF CONTENT IS TENTATIVE.

report - in English - on the Institute for Atomic Physics in Budapest, and a one-page typewritten description of an atomic reactor to be delivered to Hungary by the USSR. The handwritten report discusses the general layout of the Institute, key personnel and their functions, and the general organization of the institution.

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1. The Hungarian Reactor from the USSR will be a heavy water moderated Research Reactor. It will serve as a source of neutrons for the study of neutron distribution from the fission of Uranium 235; for the observation of life-time, half-life of neutrons, the intensities of gamma rays after fission; the measurement of velocity distribution of the fission fragments; the measurement of fission, absorption and scattering of neutrons; cross section measurements.

2. Biological Uses: Experiments to determine the biological and physical effects of thermal neutrons and hard gamma rays. The production of radioactive isotopes to follow the progress of foods and minerals in organisms; for studies of blood processes, gland functions and animal metabolism by means of radioactive isotopes; irradiation of germanium and silicon crystals to investigate electrical properties; and for the sterilization of food products by means of spent reactor fuel elements, reactor fission products and radio isotopes.

3. The Reactor will consist of the following:

- An ionization chamber
- Amplifier
- Thermal column
- Grid plate
- Reflector
- Safety instruments and equipment
- Counting equipment for fast neutrons

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The Institute of Atomphysics in Budapest, officially called Central Institute for Physical Researches of the Academy of Sciences (situated at the Western slope of the Buda<sup>h</sup>aghy (formerly called Liberty, now Mountain of Liberty) in a vast area of about 6-7000 m<sup>2</sup>, far from any inhabited territory, between forests and hills. It consists of about 50 already finished buildings, and several underground buildings, hidden under garden arrangements. Each building is separated from the others. Each building serving different purposes. The new reactor received recently from Russia is also built in, but the building is not yet finished. (The reactor was sent by Russia in exchange for valuable products and manufactured goods produced by the country) The building of the house containing the reactor is still going on.

Each department has its own building, separated from each other by fireproof and atomproof equipments. There is a military guard at the entrance of the establishment and the entire area is fenced by a high stone wall. The buildings might only be approached by the autobuses of the institute, which are also conveying the members of the office staff, with the exception of the professors and managers, who

...using their private cars, and entrance tickets issued by the personal department are supervised at the entrance by the military guard and subsequently by the porter of the institute. The staff has permanent entrance tickets, valable for a month, and only for the building they are working in.

The buildings are two - three floors high, and contain the following departments: The building of administration, containing the rooms of the management, the personal department, the various administrating offices, the documentation - kitchen and dining rooms.

The building of atom-chemistry, fitted out with up to date laboratories for chemical research work, especially concerning the isotopes.

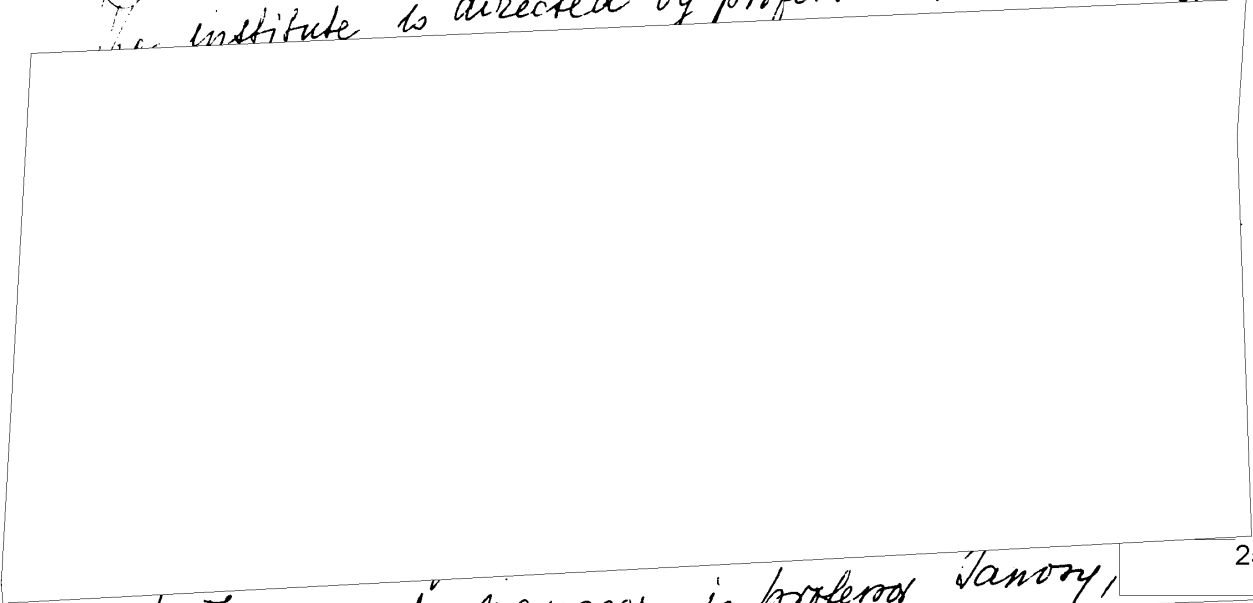
The building of atomic-physics, where the research work concerning atomic-physics is done.

The building of the new reactor, with underground departments, equipped for the production of isotopes, neutrons, positrons,  $\alpha$ ,  $\beta$ ,  $\gamma$  and the respective safety equipments, for the apparatus and the persons handling them. It will also contain an atomic-pile, not yet in function.

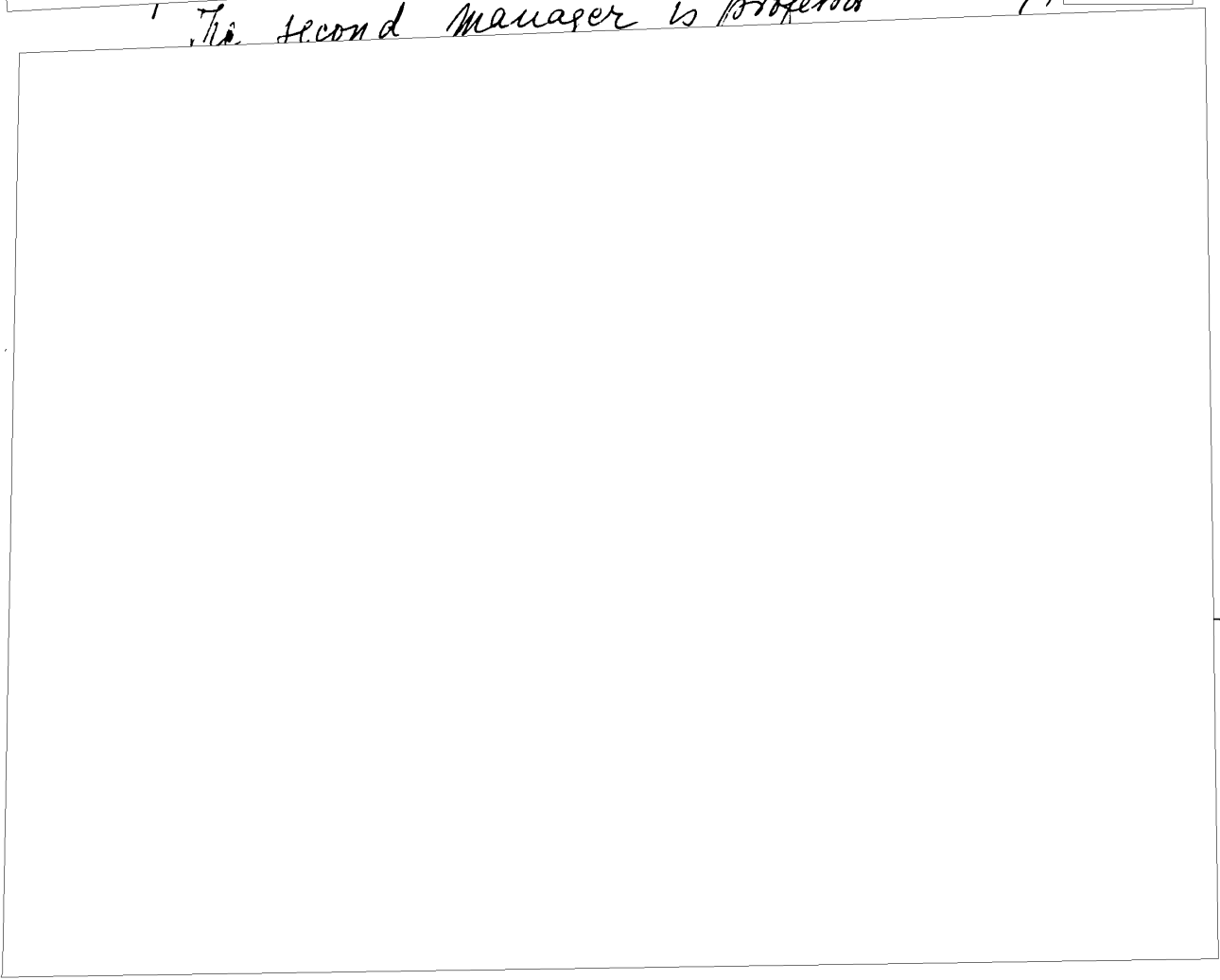
The military building.  
There are also well <sup>protected</sup> stores for the storing of radioactive material and first material.

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The institute is directed by professor István Kovács. 25X1



The second manager is professor Janosy, 25X1



[REDACTED]

The personal department of the institute is  
conducted by a Mrs. Vrány,

25X1

[REDACTED]

The administration of the Institute is con-  
ducted by a Mr. Bacskey,

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[REDACTED]

The documentation is conducted by Igor Do-  
binsky (dr. of physics),

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The Institute is financed and directed by the Academy of Sciences, which, in turn, has<sup>25X1</sup> to make semestrial reports to the government, the Minister of Culture, respectively to the Russian occupant.

The staff, respectively the research —

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SECRET

Workers are relatively well paid - though very little, compared to the wages paid in the Western countries, and not adequate to <sup>the</sup> modern exigencies of life - as they receive besides normal wages danger supplements.

The social spirit of the staff is comparatively good, as they are not overburdened with ideological seminars and lectures, ennobling life, and ~~claiming~~ 'the time of' other Hungarian office staffs.